

DC-8 07/12/16

Aircraft: [DC-8 - AFRC](#) ([See full schedule](#))

Flight Number: 1114

Payload Configuration: ATom-1 Configuration

Nav Data Collected: Yes

Archive Data: [20160712](#) (41 archive (plain-text) files; 3 binary files; 2 image files)

Total Flight Time: 3.9 hours

Submitted by: Timothy Moes on 07/20/16

Flight Segments:

From:	KPMD	To:	KPMD
Start:	07/12/16 18:41 Z	Finish:	07/12/16 22:33 Z
Flight Time:	3.9 hours		
Log Number:	168002	PI:	Steven Wofsy
Funding Source:	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
Purpose of Flight:	Check		
Comments:	Good flight. This was the first science instrument check flight for the ATom-1 configuration. All science objectives were met. Unknown low-level vibration was experienced (like on the shake flight) at higher altitudes and Mach numbers. Satcom for data upload/download was not working well today. Flight included 3 vertical profiles, MMS maneuver, and some extended time at low altitude over the ocean including sampling above and below a low thin cloud "deck". Variations to flight speed were investigated as were variations in descent rates. A number of instruments started out hot, but recovered and worked well as they cooled down during the flight. Aircraft and instruments returned in good shape.		

Flight Hour Summary:

	168002
Flight Hours Approved in SOFRS	104.1
Total Used	107.5
Total Remaining	-3.4

168002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/11/16	1113	Check	1.5	1.5	102.6	
07/12/16	1114	Check	3.9	5.4	98.7	
07/18/16	1116	Check	1.4	6.8	97.3	
07/19/16	1117	Check	1.1	7.9	96.2	
07/20/16	1118	Check	1	8.9	95.2	
07/26/16 - 07/27/16	1119	Check	6.5	15.4	88.7	
07/28/16	1120	Check	0.8	16.2	87.9	
07/29/16	1121	Science	9.4	25.6	78.5	
08/01/16 - 08/02/16	1122	Science	10.2	35.8	68.3	
08/03/16 - 08/04/16	1123	Science	7.3	43.1	61	
08/06/16 - 08/07/16	1124	Science	8.6	51.7	52.4	
08/08/16 - 08/09/16	1125	Science	6.6	58.3	45.8	
08/12/16 - 08/13/16	1126	Science	10.6	68.9	35.2	
08/15/16	1127	Science	9.4	78.3	25.8	
08/17/16	1128	Science	8.5	86.8	17.3	

08/20/16	1129	Science	9.8	96.6	7.5
08/22/16	1130	Science	6	102.6	1.5
08/23/16	1131	Science	4.9	107.5	-3.4

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

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